

CLASSIFICATION

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SUBJECT Chemical Laboratory of Federal
Institute for Telecommunications,
25X1 Ljubljana

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THIS IS UNEVALUATED INFORMATION

1. The Chemical Laboratory of the Federal Institute for Telecommunications is located in a building formerly a rice mill, in Ljubljana. The laboratory is under the jurisdiction of the Yugoslav Ministry of Heavy Industry.
2. The laboratory is directly connected with the section of the Institute located at Kongresni Square, Ljubljana in a former drug store owned by a certain Bahovec, and also with a section of the Institute in the Electro-Technical Faculty of the Ljubljana University.
3. At the Institute for Telecommunications experiments are conducted in telegraph and radio communications, while at the laboratory, experiments are conducted with magnetic materials for different high frequency cores, (i.e., transformer and dynamo lamination tests). The biggest problem with high frequency cores is to discover a good lamination insulating material. At present, a specially composed "bakelit" material is being tried out in lieu of various "celon" varnishes. With the "bakelit", the cores reached the same quality as similar Italian ones. These cores can be machined and are not brittle (unlike most foreign-made cores). Through successful experiments the loss of electric energy in dynamo and transformer laminations has been cut down to 1.5 watt per kilogram.

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